27 September 1961

MEMORANDUM FOR: Chief, Technical Plans and Development Staff

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THROUGH:

Chief, TISD  $5 \cdot J$ 

SUBJECT:

Initial Procurement of Parts to Convert the GIANT

into a Useful Comparator

1. The GIANT can serve as a useful 70 mm comparator, utilizing the Richardson projection transformation program. However, several items on it should be changed as soon as possible to improve SMEATINTL system.

a. Arrange for immediate delivery on the Electrotyper purchased with the and can be used on the TATANTL while awaiting the

b. Purchase a rear projection screen to replace the present viewing screen. Tests indicate that the present screen is only capable of resolving 40-45 lines at the film plane with a 10X magnification on the screen. Substitution of high quality lenses and a higher magnification ratio gave no apparent increase of resolution on the screen.

- c. Purchase a new first surface mirror to replace the last mirror in the optical path containing the partial transmission spot.
- 2. To make a total conversion of the GIANT, i.e., eliminate the tracking characteristic and achieve maximum use as a rear projection comparator, will involve radical design change that should not be attempted until it is definitely established that the tracking capability is unsatisfactory or will never be needed due to changes in future programs. The changes recommended above are minimal and not prohibit the use of the GIANT as an automatic tracking machine.

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NPIC/TISD/TIB: df(2850)

Declass Review by NIMA / DoD

## Approved For Release 2001/05/11 : CIA-RDP78B04747A001800020002-9

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## ADDITIONAL INFORMATION

1. All work could be performed by

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2. The following prices have been received from the

TATINTL

lst surface mirror, glazing quality plate glass with  $\frac{1}{2}$  wave wave length Silicon Oxide protective coating with approximately 2 weeks delivery. STATINTL

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viewing screen, non-stereo week delivery.

LS- $60G_{\mu}^{1}$  with one

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The above items could be purchased from on our open STATINTL tract with them and the entire job could be completed within one month or less.

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